

IN THE CLAIMS

1-7. (Cancelled)

8. (Currently amended) A method for delivering a biological regulator into an eukaryotic cytoplasm or nucleus, comprising steps:

- i) Preparing peptide transducing recombinant expression vector which comprises a DNA encoding a protein transduction domain (PTD), a DNA encoding one or more homologous or heterologous binding protein having a DNA or RNA binding factor or a DNA or RNA binding domain, and an expression regulatory sequence operatively bound to the vector;
- ii) Obtaining a fusion protein by the expression of the vector of step i) in a host cell and isolating the fusion protein;
- iii) Preparing a recombinant expression vector which comprises a DNA encoding a biological regulator, a DNA or RNA binding sequence specifically binding to the DNA or RNA binding factor or the DNA or RNA binding domain, and expression regulatory sequence bound operatively to the vector;
- iv) Obtaining extracellularly a binding complex by combining the isolated fusion protein from step ii) with the recombinant expression vector from step iii); and
- v) Delivering the binding complex of step iv) into the eukaryotic cytoplasm or nucleus.

9-13. (Cancelled)

14. (Currently amended) The method according to claim 8, wherein step ii) comprises an additional step of combining NLS (Nuclear Localization Sequence) with the PTD of the fusion protein.

15. (Cancelled)

16. (Currently amended) The method according to claim 8, wherein the binding complex is delivered into the eukaryotic cytoplasm or nucleus *in vitro* or *in vivo*.

17. (Cancelled)

18. (Currently amended) The method according to claim 8, wherein the binding complex is delivered into the eukaryotic cytoplasm or nucleus through intramuscular, intraperitoneal, intravein, oral, nasal, subcutaneous, intradermal, mucosal or inhalation routes.